

Manufacturer's Declaration

Nr. / No. SINAMICS_V_668.DCOBK-L1118.40.019

Manufacturer: SIEMENS Aktiengesellschaft

Address: SIEMENS Aktiengesellschaft, DF MC
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Germany

Product description: **SINAMICS V70 and SINAMICS V90**
(for included hardware see annex)

The functional safety functions "Basic Functions" (STO) of the above mentioned product fulfil the requirements of SIL 2 according to [1] and [4], PL d according to [2] and category 3 according to [2]. The functions STO correspond to stop category 0 according to [3], respectively.

Reference number

[1] IEC 61508, part 1 to 3 (2010)
[2] ISO 13849 part 1 (2015)
[3] IEC 60204 (2005)
[4] IEC 61800-5-2 (2016)

Erlangen, 18-11-26

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SIEMENS

Index

- 1 SOFTWARE 3
 - 1.1 SINAMICS V70 3
 - 1.2 SINAMICS V90 PTI 3
 - 1.3 SINAMICS V90 PN 3

- 2 HARDWARE 4
 - 2.1 SINAMICS V70 4
 - 2.2 SINAMICS V90 (200V) 4
 - 2.3 SINAMICS V90 (400V) 5

1 Software

1.1 SINAMICS V70

Main Version	Safety-Firmware-Version
V 4.6	V 04.60.16.00

1.2 SINAMICS V90 PTI

Main Version	Safety-Firmware-Version
V 4.6	V 04.60.16.00
V 4.7	V 04.70.26.00 V 04.70.35.63

1.3 SINAMICS V90 PN

Main Version	Safety-Firmware-Version
V 4.7	V 04.70.26.00 V 04.70.35.63

2 Hardware

2.1 SINAMICS V70

Description	Purchase-No. (MLFB)	Version
V70 400V FSA 2.4A	6SL3210-5DE12-4UA0	01, 02, 03, 04
V70 400V FSA 3.5A	6SL3210-5DE13-5UA0	01, 02, 03, 04
V70 400V FSB 5.9A	6SL3210-5DE16-0UA0	01, 02, 03, 04
V70 400V FSB 7.8A	6SL3210-5DE17-8UA0	01, 02, 03, 04
V70 400V FSB 9.9A	6SL3210-5DE21-0UA0	01, 02, 03, 04
V70 400V FSC 14.1A	6SL3210-5DE21-4UA0	01, 02, 03, 04
V70 400V FSC 17.7A	6SL3210-5DE21-8UA0	01, 02, 03, 04
V70 Spindle		
V70 Spindle 400V FSB 3.5KW	6SL3210-5DE21-1UA0	01
V70 Spindle 400V FSC 3.5KW	6SL3210-5DE21-3UA0	01
V70 Spindle 400V FSC 7.5KW	6SL3210-5DE22-0UA0	01
V70 Spindle 400V FSD 11kW	6SL3210-5DE23-0UA0	01
V70 Spindle 400V FSD 15kW	6SL3210-5DE24-0UA0	01

2.2 SINAMICS V90 (200V)

Description	Purchase-No. (MLFB)	Version
V90 PTI 200V		
V90 200V FSA 0.1kW	6SL3210-5FB10-1UA0	01, 02
V90 200V FSA 0.1kW	6SL3210-5FB10-1UA2	03
V90 200V FSA 0.2kW	6SL3210-5FB10-2UA0	01, 02
V90 200V FSA 0.2kW	6SL3210-5FB10-2UA2	03
V90 200V FSB 0.4kW	6SL3210-5FB10-4UA0	01
V90 200V FSB 0.4kW	6SL3210-5FB10-4UA1	01, 02, 03
V90 200V FSC 0.75kW	6SL3210-5FB10-8UA0	01, 02, 03
V90 200V FSD 1kW	6SL3210-5FB11-0UA0	01
V90 200V FSD 1kW	6SL3210-5FB11-0UA1	01, 02, 03
V90 200V FSD 1.5kW	6SL3210-5FB11-5UA0	01, 02, 03
V90 200V FSD 2kW	6SL3210-5FB12-0UA0	01, 02, 03
V90 PN 200V		
V90 200V FSA 0.1kW	6SL3210-5FB10-1UF2	02
V90 200V FSA 0.2kW	6SL3210-5FB10-2UF2	02
V90 200V FSB 0.1KW	6SL3210-5FB10-1UF0	01
V90 200V FSB 0.2kW	6SL3210-5FB10-2UF0	01
V90 200V FSB 0.4kW	6SL3210-5FB10-4UF1	01, 02

V90 200V FSC 0.75kW	6SL3210-5FB10-8UF0	01, 02
V90 200V FSD 1kW	6SL3210-5FB11-0UF1	01, 02
V90 200V FSD 1.5kW	6SL3210-5FB11-5UF0	01, 02
V90 200V FSD 2kW	6SL3210-5FB12-0UF0	01, 02

2.3 SINAMICS V90 (400V)

Description	Purchase-No. (MLFB)	Version
V90 PTI 400V		
V90 400V FSAA 0.4kW	6SL3210-5FE10-4UA0	01, 02, 03, 04, 05
V90 400V FSA 0.75kW	6SL3210-5FE10-8UA0	01, 02, 03, 04, 05
V90 400V FSA 1kW	6SL3210-5FE11-0UA0	01, 02, 03, 04, 05
V90 400V FSB 1.5kW	6SL3210-5FE11-5UA0	01, 02, 03, 04, 05
V90 400V FSB 2kW	6SL3210-5FE12-0UA0	01, 02, 03, 04, 05
V90 400V FSC 3.5kW	6SL3210-5FE13-5UA0	01, 02, 03, 04, 05
V90 400V FSC 5kW	6SL3210-5FE15-0UA0	01, 02, 03, 04, 05
V90 400V FSC 7kW	6SL3210-5FE17-0UA0	01, 02, 03, 04, 05
V90 PN 400V		
V90 400V FSAA 0.4kW	6SL3210-5FE10-4UF0	01, 02
V90 400V FSA 0.75kW	6SL3210-5FE10-8UF0	01, 02
V90 400V FSA 1kW	6SL3210-5FE11-0UF0	01, 02
V90 400V FSB 1.5kW	6SL3210-5FE11-5UF0	01, 02
V90 400V FSB 2kW	6SL3210-5FE12-0UF0	01, 02
V90 400V FSC 3.5kW	6SL3210-5FE13-5UF0	01, 02
V90 400V FSC 5kW	6SL3210-5FE15-0UF0	01, 02
V90 400V FSC 7kW	6SL3210-5FE17-0UF0	01, 02